Table S4: Impact of aging on genes down-regulated by microbiota.

CC NUMBER		ed by microbiota.	CENE FUNCTION	Effect of mic	crobiota on old guts
CG NUMBER	GENE SYMBOL	GENE category	GENE FUNCTION	Canton S	Canton S
Young repressed genes				CR/AX	CR/AX
CG8023	elF4E-3	GENE EXPRESSION	eukaryotic initiation factor 4G binding	-1.41	-1.24
CG16834	lectin-33A	IMMUNE RESPONSE	galactose binding	-1.50	-1.03
CG1544	CG1544	METABOLISM/DIGESTION	oxoglutarate dehydrogenase (succinyl-transferring) activity	-1.31	-1.06
CG14205 CG13325	CG14205 CG13325		transferase activity, transferring acyl groups other than amino-acyl groups transferase activity, transferring acyl groups other than amino-acyl groups	-1.32 -1.39	-1.09 1.12
CG3747	Eaat1	METABOLISM/DIGESTION	glutamate:sodium symporter activity	-1.33	-1.18
CG17636	CG17636	METABOLISM/DIGESTION	gamma-glutamyltransferase activity	-1.32	1.00
CG8358	CG8358	METABOLISM/DIGESTION	metalloendopeptidase activity	-1.37	-1.05
CG31777	CG31777	METABOLISM/DIGESTION	serine-type endopeptidase inhibitor activity	-1.31	-1.10
CG17167	CG17167	METABOLISM/DIGESTION	calcium, potassium:sodium antiporter activity	-1.31	-1.28
CG42269	CG42269	METABOLISM/DIGESTION	secondary active organic cation transmembrane transporter activity	-1.35	1.25
CG8846 CG17090	Thor hipk	SIGNALING SIGNALING	InR pathway Wnt pathway	-1.38 -1.31	1.11 -1.04
CG12891	whd	STRESS RESPONSE	detoxification	-1.48	-1.01
CG9989	CG9989	UNKNOWN	-	-1.36	1.34
CG16904	CG16904	UNKNOWN	-	-1.32	-1.23
CG30008	CG30008	UNKNOWN	-	-1.32	-1.26
CG6749	CG6749	UNKNOWN	-	-1.35	-1.07
CG34040	CG34040	UNKNOWN	-	-1.40	-1.04
CG34040 CG15213	CG34040	UNKNOWN	-	-1.40	-1.08
CG33337	CG15213 CG33337	UNKNOWN UNKNOWN	- -	-1.43 -1.54	-1.12 -1.28
Young and old repressed genes		ONKNOWN		-1.54	-1.20
CG6908	CG6908	GENE EXPRESSION	CHK kinase-like	-1.37	-1.76
CG6403	CG6403	GUT STRUCTURE	chitin binding	-1.31	-1.48
CG10154	CG10154	GUT STRUCTURE	chitin metabolic process	-1.49	-1.86
CG11218	Obp56d	GUT STRUCTURE	odorant binding	-1.55	-2.22
CG15533	aSMase	GUT STRUCTURE	sphingomyelin phosphodiesterase activity	-1.37	-1.60
CG9465 CG7923	CG9465 Fad2	METABOLISM/DIGESTION	alpha-mannosidase activity fatty acid desaturase	-1.32 -1.31	-1.83 -1.49
CG17192	CG17192	METABOLISM/DIGESTION METABOLISM/DIGESTION	triglyceride lipase activity	-1.31 -1.34	-1.49
CG6296	CG6296	METABOLISM/DIGESTION	triglyceride lipase activity	-1.35	-1.68
CG31091	CG31091	METABOLISM/DIGESTION	triglyceride lipase activity	-1.38	-2.56
CG31089	CG31089	METABOLISM/DIGESTION	triglyceride lipase activity	-1.42	-2.29
CG32444	CG32444	METABOLISM/DIGESTION	aldose 1-epimerase activity	-1.36	-1.75
CG8808	Pdk	METABOLISM/DIGESTION	pyruvate dehydrogenase (acetyl-transferring) kinase activity	-1.31	-1.33
CG10182	CG10182		transferase activity, transferring acyl groups other than amino-acyl groups	-1.36	-1.70
CG6633	Ugt86Dd	METABOLISM/DIGESTION	glucuronosyltransferase activity	-1.46	-1.76
CG34451	CG34451	METABOLISM/DIGESTION	protein glycosylation	-1.32	-1.50
CG1082 CG11911	alpha-Est4 CG11911	METABOLISM/DIGESTION METABOLISM/DIGESTION	carboxylesterase activity serine-type endopeptidase activity	-1.32 -1.33	-1.58 -2.07
CG6898	Zip3	METABOLISM/DIGESTION	metal ion transmembrane transporter activity	-1.34	-1.40
CG31783	ninaD	METABOLISM/DIGESTION	scavenger receptor activity	-1.39	-2.57
CG4459	CG4459	METABOLISM/DIGESTION	-	-1.31	-1.31
CG9825	CG9825	METABOLISM/DIGESTION	high affinity inorganic phosphate:sodium symporter activity	-1.46	-1.41
CG14606	CG14606	METABOLISM/DIGESTION	hexose transporter	-1.58	-1.63
CG5973	CG5973	METABOLISM/DIGESTION	retinal binding	-1.42	-1.59
CG14694	CG14694	METABOLISM/DIGESTION	reduced folate carrier activity	-1.41	-1.83
CG32751 CG16752	CG32751 SPR	METABOLISM/DIGESTION SIGNALING	pantetheine hydrolase activity sex peptide pathway	-1.42 -1.56	-2.29 -2.07
CG16987	daw	SIGNALING	TGF pathway	-1.59	-1.49
CG3972	Cyp4g1	STRESS RESPONSE	Cytochrome P450	-1.66	-2.34
CG10833	Cyp28d1	STRESS RESPONSE	electron carrier activity	-1.33	-1.52
CG33503	Cyp12d1-d	STRESS RESPONSE	electron carrier activity	-1.35	-1.55
CG3540	Cyp4d14	STRESS RESPONSE	electron carrier activity	-1.36	-1.74
CG8523	Mdr50	STRESS RESPONSE	ATPase activity, coupled	-1.45	-1.82
CG4371 CG32407	GstD7 CG32407	STRESS RESPONSE UNKNOWN	glutathione transferase activity	-1.31 -1.40	-2.04 -1.95
Old repressed genes	CG32407	ONKNOWN		-1.40	-1.55
CG7768	CG7768	GENE EXPRESSION	peptidyl-prolyl cis-trans isomerase activity	-1.15	-1.36
CG32284	CG32284	GUT STRUCTURE	chitin binding	-1.15	-1.31
CG17147	CG17147	GUT STRUCTURE	structural constituent of peritrophic membrane	-1.24	-1.83
CG6933	CG6933	GUT STRUCTURE	structural constituent of peritrophic membrane	1.16	-1.34
CG1165 CG9358	LysS Phk-3	IMMUNE RESPONSE	lysozyme activity protein serine/threonine kinase activity	1.14	-1.35 1.32
CG8577	PRK-3 PGRP-SC1a/b	IMMUNE RESPONSE	protein serine/threonine kinase activity amidase activity	1.29 2.18	-1.32 -1.40
CG31741	CG31741	IMMUNE RESPONSE	scavenger receptor activity	-1.15	-1.40
CG15918	Cda9	METABOLISM/DIGESTION	hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds	-1.13	-1.50
CG18607	CG18607	METABOLISM/DIGESTION	Acyl-CoA N-acyltransferase	-1.06	-1.44
CG3902	CG3902	METABOLISM/DIGESTION	short-branched-chain-acyl-CoA dehydrogenase activity	-1.09	-1.40
CG11162	CG11162	METABOLISM/DIGESTION	C-4 methylsterol oxidase activity	-1.05	-1.59
CG9394	CG9394	METABOLISM/DIGESTION	glycerophosphodiester phosphodiesterase activity	-1.18	-1.52
CG12512	CG12512	METABOLISM/DIGESTION	long-chain fatty acid-CoA ligase activity	-1.16	-1.58
CG4501	bgm CC15534	METABOLISM/DIGESTION	long-chain fatty acid-CoA ligase activity	-1.11	-1.37
CG15534 CG13478	CG15534	METABOLISM/DIGESTION	sphingomyelin phosphodiesterase activity electron carrier activity	-1.28 1.13	-1.63 -1.32
CG13478 CG11129	shd Yp3	METABOLISM/DIGESTION METABOLISM/DIGESTION	electron carrier activity structural molecule activity	-1.13 1.12	-1.32 -1.35
0011120	140	WIL IADOLIOW/DIGESTION	Structural molecule activity	1.14	-1.00

CG31674	45 399 444 439 355 365 365 365 365 365 365 365 365 365
CG30354 CC30354 METABOLISM/DIGESTION transferase activity uniquinol-cyfochrome-c reductase activity -1.18 -1.16 CG14219 CG14219 CG14219 CG14219 CG14219 CG14219 CG14219 CG14219 METABOLISM/DIGESTION transferase activity transferring acyl groups other than amino-acyl groups -1.07 -1.10	39
CG1946	006 444 933 935 411 969 935 551 757 938 938 939 938 938 939 938 939 938 939 938 939 938 939 938 939 937 947 947 947 947
CG14219	444 39 39 35 41 41 69 99 99 55 56 67 67 68 69 99 98 88 89 89 89 89 89 89 89 89 89 89
CG5361	339 355 369 369 369 365 367 367 368 369 369 369 369 377 377 377 377 377 377 377 37
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CG8147	35 41 41 339 35 56 57 57 56 57 57 56 57 57 56 57 57 56 57 57 58 56 50 64 66 64 56 56 56 64 64 56 64 64 56 64 64 64 64 64 64 64 64 64 64 64 64 64
CG17681 CG17681 METABOLLSM/DIGESTION N-acetyltransferase activity -1.06 -1.	411 999 335 551 577 573 332 335 564 64 633 339 339 339 339 339 339 347 477 477 477
CG13271	699 939 939 939 939 939 939 939 939 939
CG4302	399 355 361 362 363 364 364 364 364 364 364 364
CG15902	35 51 51 51 51 51 51 51 51 51 51 51 51 51
CG40305 FuCTC METABOLISM/DIGESTION fucosyltransferase activity -1.14 -1. CG4123 Mipp1 METABOLISM/DIGESTION inositol or phosphatidylinositol phosphatase activity -1.14 -1. CG11425 CG11425 METABOLISM/DIGESTION phosphatidate phosphatase activity 1.05 -1. CG13813 CG13813 METABOLISM/DIGESTION transferase activity, transferring phosphorus-containing groups -1.05 -1. CG13659 CG13659 METABOLISM/DIGESTION transferase activity, transferring phosphorus-containing groups -1.08 -1. CG13658 CG13658 METABOLISM/DIGESTION transferase activity, transferring phosphorus-containing groups -1.17 -1. CG13603 CG13930 METABOLISM/DIGESTION transferase activity, transferring phosphorus-containing groups -1.18 -1. CG1226 CG9512 METABOLISM/DIGESTION transferase activity, transferring phosphorus-containing groups -1.18 -1. CG1236 CG15093 METABOLISM/DIGESTION ransferase activity, transferring phosphorus-containing groups -1.18 -1. CG126 <	551 577 578 585 560 646 639 638 632 644 644 644 644 644 645 647 647 647 647 647 647 647 647
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CG10062 CG10062 METABOLISM/DIGESTION peptidase activity -1.25 -1. CG9416 CG9416 METABOLISM/DIGESTION peptidase M28 -1.21 -1. CG17475 CG17475 METABOLISM/DIGESTION Peptidase S1/S6 -1.10 -1. CG34458 CG34458 METABOLISM/DIGESTION Peptidase S1/S6 -1.22 -1. CG4053 CG4053 METABOLISM/DIGESTION serine-type endopeptidase activity -1.28 -1. CG31266 CG31266 METABOLISM/DIGESTION serine-type endopeptidase activity -1.26 -1. CG31267 CG31267 METABOLISM/DIGESTION serine-type endopeptidase activity -1.12 -1. CG16997 METABOLISM/DIGESTION serine-type endopeptidase activity -1.09 -1.	47 37 47 47 75
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CG16997 CG16997 METABOLISM/DIGESTION serine-type endopeptidase activity 1.08 -1.	
CG8299 CG8299 METABOLISM/DIGESTION serine-type endopeptidase activity 1.01 -1.	
CG15418 CG15418 METABOLISM/DIGESTION endopeptidase inhibitor activity -1.06 -1.	
CG12387 zetaTry METABOLISM/DIGESTION serine-type endopeptidase activity -1.23 -1.	
CG6574 CG6574 METABOLISM/DIGESTION reduced folate carrier activity -1.19 -1.	18
CG7642 ry METABOLISM/DIGESTION xanthine dehydrogenase activity -1.15 -1.	10
CG8745 CG8745 METABOLISM/DIGESTION alanine-glyoxylate transaminase activity -1.28 -1.	32
CG4991 CG4991 METABOLISM/DIGESTION amino acid transmembrane transporter activity -1.21 -1.	30
CG11128 slif METABOLISM/DIGESTION cationic amino acid transmembrane transporter activity -1.09 -1.	
CG17119 CG17119 METABOLISM/DIGESTION L-cystine transmembrane transporter activity -1.15 -1.	
CG10806 Nha1 METABOLISM/DIGESTION sodium:hydrogen antiporter activity -1.14 -1.	
CG11340 CG11340 METABOLISM/DIGESTION extracellular-glycine-gated chloride channel activity -1.27 -1.	
CG9428 ZIP1 METABOLISM/DIGESTION metal ion transmembrane transporter activity -1.27 -1.	
CG5130 CG5130 METABOLISM/DIGESTION zinc ion transmembrane transporter activity -1.18 -1.	
CG9903 CG9903 METABOLISM/DIGESTION bile acid:sodium symporter activity -1.23 -1.	
CG16700 CG16700 METABOLISM/DIGESTION gamma-aminobutyric acid:hydrogen symporter activity -1.16 -1.	
CG5304 I(2)01810 METABOLISM/DIGESTION high affinity inorganic phosphate:sodium symporter activity -1.07 -1.	58
CG8791 CG8791 METABOLISM/DIGESTION high affinity inorganic phosphate:sodium symporter activity -1.02 -1.	56
CG9826 CG9826 METABOLISM/DIGESTION high affinity inorganic phosphate:sodium symporter activity -1.25 -1.	
CG8083 CG8083 METABOLISM/DIGESTION nucleoside:sodium symporter activity 1.00 -1.	
CG7720 CG7720 METABOLISM/DIGESTION sodium:iodide symporter activity -1.20 -1.	
CG30272 CG30272 METABOLISM/DIGESTION1.09 -2.	
CG30272 METABOLISM/DIGESTION	
CG7912 CG7912 METABOLISM/DIGESTION high affinity sulfate transmembrane transporter activity -1.08 -1.	
CG5002 CG5002 METABOLISM/DIGESTION high affinity sulfate transmembrane transporter activity -1.20 -1.	
CG8468 CG8468 METABOLISM/DIGESTION secondary active monocarboxylate transmembrane transporter activity -1.01 -1.	
CG18327 CG18327 METABOLISM/DIGESTION transmembrane transporter activity -1.05 -1.	
CG31636 CG31636 METABOLISM/DIGESTION transporter activity -1.09 -1.	30
CG32669 CG32669 METABOLISM/DIGESTION transporter activity -1.13 -1.	57
CG32750 CG32750 METABOLISM/DIGESTION pantetheine hydrolase activity -1.26 -1.	
CG33965 CG33965 METABOLISM/DIGESTION vitamin E binding -1.24 -1.	
CG31288 CG31288 SIGNALING CHK kinase like -1.09 -1.	
CG1600 CG1600 STRESS RESPONSE Alcohol dehydrogenase -1.09 -1.	
CG30489 Cyp12d1 STRESS RESPONSE electron carrier activity -1.28 -1.	
CG13279 Cyt-b5-r STRESS RESPONSE electron carrier activity 1.08 -1.	
CG9438 Cyp6a2 STRESS RESPONSE electron carrier activity -1.16 -1.	
CG15095 I(2)08717 STRESS RESPONSE hypoxia -1.29 -1.	53
CG6835 CG6835 STRESS RESPONSE glutathione synthetase -1.16 -1.	
CG5164 GstE1 STRESS RESPONSE - 1.07 -1.	
CG17533 GstE8 STRESS RESPONSE glutathione transferase activity -1.19 -1.	
CG4181 GstD2 STRESS RESPONSE glutathione transferase activity 1.23 -1.	
CG10091 GstD9 STRESS RESPONSE glutatilione transferase activity 1.25 -1.	
gualations drawing 1.20 -1.	-

CG11512	GstD4	STRESS RESPONSE	homology glutathione transferase activity	-1.13	-1.41
CG9027	CG9027	STRESS RESPONSE	superoxide dismutase activity	-1.15	-1.37
CG3348	CG3348	UNKNOWN	-	-1.15	-1.87
CG11889	CG11889	UNKNOWN	-	-1.12	-1.83
CG7390	smp-30	UNKNOWN	-	-1.23	-1.71
CG14033	CR14033	UNKNOWN	-	-1.07	-1.70
CG7966	CG7966	UNKNOWN	-	-1.18	-1.67
CG32364	CG32364	UNKNOWN	-	-1.03	-1.66
CG16723	CG16723	UNKNOWN	-	-1.26	-1.64
CG9396	CG9396	UNKNOWN	-	-1.21	-1.63
CG6834	CG6834	UNKNOWN	-	-1.28	-1.62
CG13004	CG13004	UNKNOWN	-	1.01	-1.61
CG10799	CG10799	UNKNOWN	-	-1.29	-1.57
CG11501	CG11501	UNKNOWN	-	-1.11	-1.55
CG18806	CG18806	UNKNOWN	-	-1.23	-1.54
CG30411	CG30411	UNKNOWN	-	-1.21	-1.48
CG15170	CG15170	UNKNOWN	-	-1.28	-1.47
CG3850	sug	UNKNOWN	-	-1.04	-1.46
CG32754	vanin-like	UNKNOWN	-	-1.10	-1.46
CG6034	CG6034	UNKNOWN	-	-1.16	-1.46
CG7582	CG7582	UNKNOWN	-	-1.20	-1.45
CG13936	CG13936	UNKNOWN	-	-1.06	-1.44
CG10550	CG10550	UNKNOWN	-	-1.17	-1.44
CG7191	CG7191	UNKNOWN	-	-1.25	-1.44
CG7968	CG7968	UNKNOWN	-	-1.18	-1.43
CG3568	CG3568	UNKNOWN	-	1.05	-1.42
CG31248	CG31248	UNKNOWN	-	-1.00	-1.42
CG34251	CG34251	UNKNOWN	-	-1.00	-1.39
CG10553	CG10553	UNKNOWN	-	-1.03	-1.39
CG40198	CG40198	UNKNOWN	-	1.14	-1.37
CG6337	CG6337	UNKNOWN	-	1.10	-1.36
CG31975	CG31975	UNKNOWN	-	-1.04	-1.36
CG8317	CG8317	UNKNOWN	-	1.31	-1.34
CG33510	CG33510	UNKNOWN	-	1.12	-1.33
CG15406	CG15406	UNKNOWN	-	1.11	-1.32
CG5326	CG5326	UNKNOWN	-	-1.23	-1.31
CG31041	CG31041	UNKNOWN	-	1.07	-1.31
CG13285	CG13285	UNKNOWN	-	1.02	-1.31
CG31259	CG31259	UNKNOWN	-	-1.22	-1.31
CG13607	CG13607	UNKNOWN	ATP binding	-1.01	-1.46
CG6839	CG6839	UNKNOWN	hydrolase activity	-1.18	-1.45

<-1.3 <-2.0 <-4.0 >1.3 >2 >4